REMARKS

Claims 1-16 are currently pending in the subject application and are presently under consideration. Claim 10 has been canceled. Claims 1-4, 6-7, 9, 11-13 and 15-16 have been amended. Claims 17-42 have been canceled and are being pursued in divisional applications. Applicants' representative thanks the Examiner for the withdrawal of the rejection under 35 U.S.C. §101.

Favorable reconsideration of the subject patent application is respectfully requested in view of the comments and amendments herein.

I. Rejection of Claims 1-4, 6, 7, 9-14 and 16 Under 35 U.S.C. §102(e)

Claims 1-4, 6, 7, 9-14 and 16 stand rejected under 35 U.S.C. §102(e) as being anticipated by Teegan, et al. (US 6,748,555). This rejection should be withdrawn for at least the following reasons. Teegan et al. does not disclose each and every limitation of the subject claims.

A single prior art reference anticipates a patent claim if "each and every limitation set forth in the patent claim" is disclosed either expressly or inherently. (Trintec Industries, Inc. v. Top-U.S.A. Corp., 295 F.3d 1292, 1295, 63 U.S.P.Q.2d 1597, 1599 (Fed. Cir. 2002) (citing to Verdegaal Bros., Inc. v. Union Oil Co., 814 F.2d 628, 631, 2 U.S.P.Q.2d 1051, 1052-53 (Fed. Cir. 1987))) (emphasis added). Moreover, "[t]he identical invention must be shown in as complete detail as is contained in the patent claim." (Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 U.S.P.Q.2d 1913, 1920 (Fed. Cir. 1989) (citing Jamesbury Corp. v. Litton Industrial Products, Inc., 756 F.2d 1556, 1560, 225 U.S.P.Q. 253, 257 (Fed. Cir. 1985); and Connell v. Sears, Roebuck & Co., 722 F.2d 1542, 1548, 220 U.S.P.Q. 193, 198 (Fed. Cir. 1983))) (emphasis added).

Teegan et al. discloses a software manager for monitoring software objects. (See e.g., Teegan et al. at Abstract). The software manager is operable to derive program-level metrics to provide an overall picture of a software object's performance. (See e.g., Id.). Teegan et al. does not disclose gathering and aggregating operational metrics indicative of one or more states of a plurality of member machines configured as an array of machines, a unified result set indicative of the system-wide state of the array of machines or an interface for providing the unified set result to a requestor as if the array of machines were a singular machine as recited in the subject claims.

II. Rejection of Claims 1, 3-8 and 15 Under 35 U.S.C. §102(e)

Claims 1, 3-8 and 15 stand rejected under 35 U.S.C. §102(e) as being anticipated by Salzberg, et al. U.S. Publication No. 2003/0086536, KPMG Consulting Inc. (hereinafter Salzberg-KPMG). This rejection should be withdrawn for at least the following reasons. A declaration under 37 C.F.R. §1.131 was previously filed on May 23, 2005, a copy of which is enclosed herewith. This declaration shows that the subject matter recited in the claims was reduced to practice prior to the effective date of Salzberg-KPMG. Accordingly, this rejection should be withdrawn.

CONCLUSION

The present application is believed to be in condition for allowance in view of the above comments and amendments. A prompt action to such end is earnestly solicited.

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [MSFTP125US].

Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,

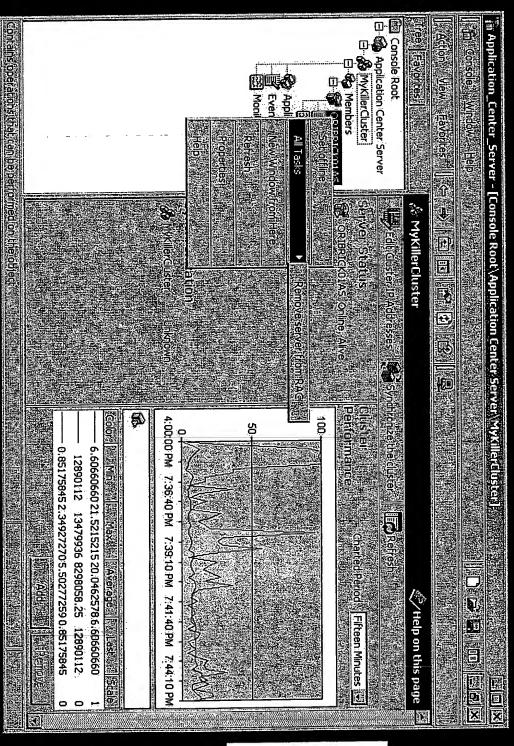
AMIN & TUROCY, LLP

Reg. No. 52,970

AMIN & TUROCY, LLP 24TH Floor, National City Center 1900 E. 9TH Street Cleveland, Ohio 44114 Telephone (216) 696-8730 Facsimile (216) 696-8731



Main MMC console

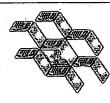


EXHIBIL Y





- Integrated monitoring tools
- Roll up perf, event, log data from across multiple servers into integrated console
- Allow drill down into specific machines, resources
- NON GOAL: Usage Analysis / Data Mining
- Self-healing, Self-tuning
- Monitor health of servers and applications
- Set thresholds for acceptable performance
- Fix it if we can

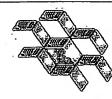


POTOTOS

- Real-Time to Intraday to Weeks to Years
- Rollup data to store larger time periods
- Interpolate down large time periods to fit chart
- Graphing View
- Can select which counters to graph
- Counters in a 10-15 preset list.
- Last value, avg/sum, min, max across servers
- Default charts in main Ui
- (2) Custom charts in separate windows



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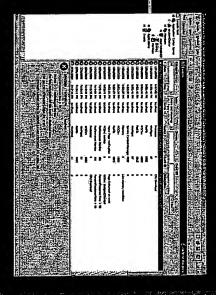
- View event logs for cluster or per server
- Log agent does distributed query, aggregates, and sorts
- Cluster Event Viewer (AppCenter, Windows
- Filter by source, type, date, server, severity



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Seliver Controller LogQueryHelper LogQuery



- 1. Parse Query
- 2. Run Query
- 3. Aggregate and4. Format Results

EXHIBIL B

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2/26/2000	8:52:48 PM	bcehost	Perfilb	1015	0
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- Severity
- Source 1 SOLVOL
- Event D
- Description

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	2/26/2000	8:52:46 PM	localhost	WinMignit	37	0
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	2/26/2000	_	bcallost	Memory	.0	Low memory condition
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	2/26/2000	7:18:16 PM	bcalhost	WinMgmt	61	0
	2000000	7:18:11 PM Incalled	- Marie	Perfin	2	



- Severity, date, time, server
- Description
- Category, subcategory
- Long Message
- Links to help and support



- Rollup in LogQueryHelper
- Events aggregated across the cluster
- Sorted by time
- Creates virtual record set
- Pass GUID of last record seen as bookmark Paging in the uses same query
- Page up, down, top, bottom
- Unreachable server is "soft error"
- Available data returned with an error



图 Console Root 日本 Application Center Server 日本 Entrollements 日本 Manufacturia n Application_Center_Server - [Console Root\Application Center Server\asuttonCluster] Applications Events 🕼 asuttonCluster Addresses of Synchronia the Lissey | | To Refresh Synchronia | Lyude See See See 8 7:01:20 PM 7:03:50 PM 7:06:20 PM 7:08:50 PM 7:11:20 PM Help on this page 7:13:50 PM Fifteen Minutes

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- Memory Available Bytes Processor Utilization





- Add Counters
- Time periods
- 15 minutes
- 1 day
- 1 WOOK
- 3 months
- Auto scaling
- 8 Default counters

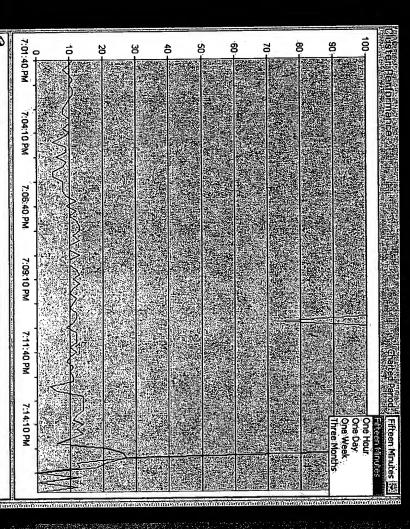
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Memory Available Bytes

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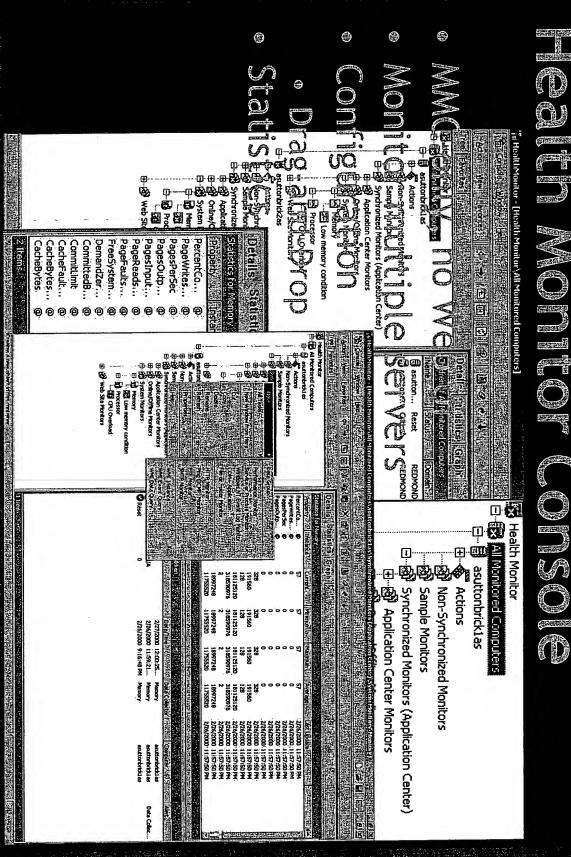
Microsoft Confidential





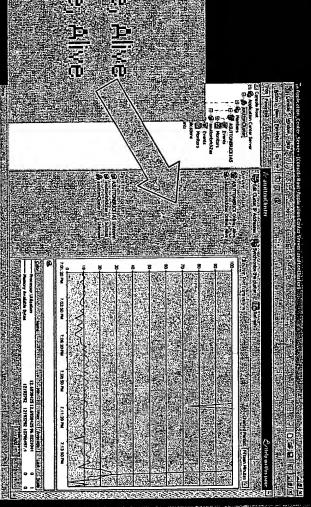
Parformance viewer

- Aggregation method in counter configuration
- 0 None
- 1 Average of Values
- 2 Sum of Values
- 3 Last Value
- . 4 Min Value
- Cumulative counters reset to 0 each session 5 - Max Value
- Different from perfmon
- Growth vs. spikes
- **(4)** Can't show one counter across server



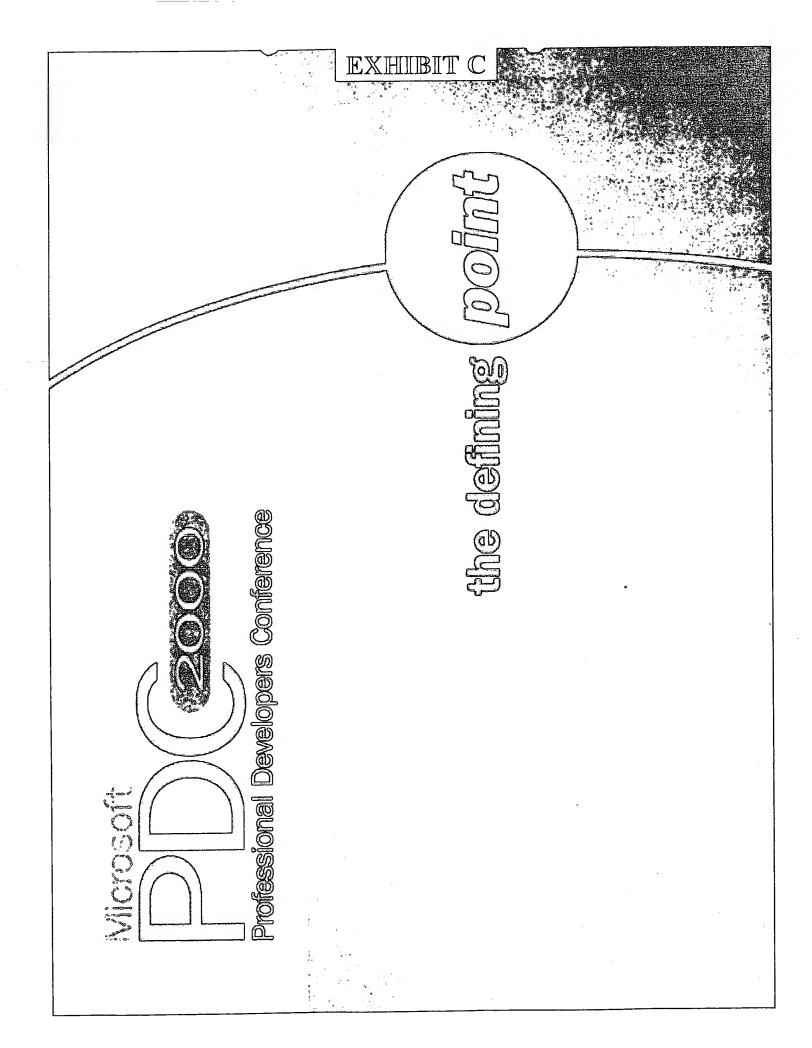


- Top-level view of server health
- System status from HealthMon
- Not the online/offline group



Cerver States

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Application Center 2000 overview

Distributed Application Monitoring

WWI: the infrastructure of management of Windows DNA and .NET

Managing and guaranteeing application availability with Application Center

- Derformance Management
- Event Management
- Health Wonttor for autoinstet fitten 15-0147

- Software scale-out model works
- a Cost-effective using commodity hardware
- a Scalable by adding more servers
- a Highly reliable
- But...
- a Ongoing operational costs
- Difficult to deploy apps
- I Difficult to monitor apps for presetive management
- m Difficult to test apps

Application Center 2000 ower cost & connolex

- Simple A*pplication* Management
- single application image
- Deployment and synchronization
- Soffware Scalling Made Easy
- On-demand scalability
- Integrated load balancing management
- Mission-Critical Availability
- a No single point of fallure
- Performance and health monition



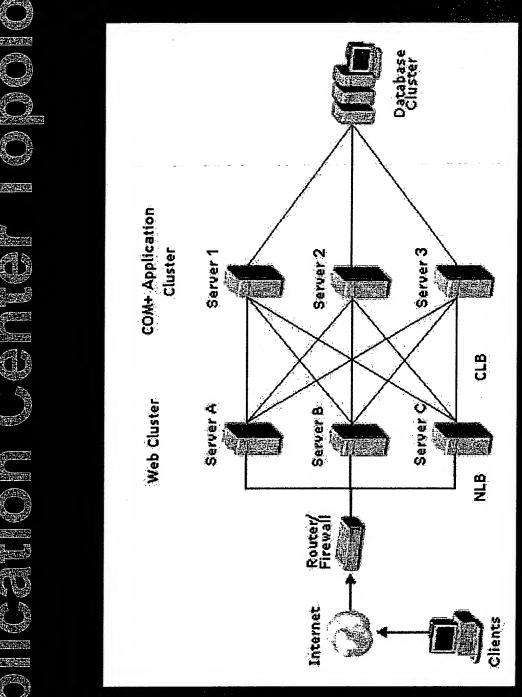
WinDNA 2000

- Win2K Server, Advanced, DataCenter
- IIS 5, Active Server Pages (ASP)
- □ COM+ 1.0

- integrated with application-level monitoring Load Balancing for Web Services, ASP+
- Richer instrumentation of .NET framework
- Easier instrumentation of .NET applications
- More integration with Application Center

- .COM's
- Hosting Providers & ASP's
- Intranet
- Web Services





图图

"Shared Nothing" clusters

- □ No single point of failure
- Application availability not affected if Cluster Controller
- Fault-tolerant load balancing protects users from server or application failures

Local Monitoring

- □ Every server monitors itself
- If critical failure detected, server can remove itself from load balancing

Remote Monitoring

□ Rich application-level (HTTP,TCP/IP,etc.) and network level (ICMP,SNMP,etc.) remote monitoring

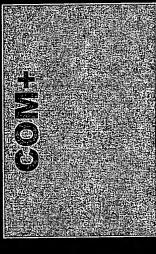
Goal: Customers can access your site

And Vie

JOHUS JUSTES ISON TO MINIM







System: Processor, Memory, Disk



COM+ Counters CLB Events adiaias

Service Status

Event Log

Sekvice

Web Counters

SQL Counters Queries , TCP Port **Events** envice

Application: HTTP Request & Insurumentalion





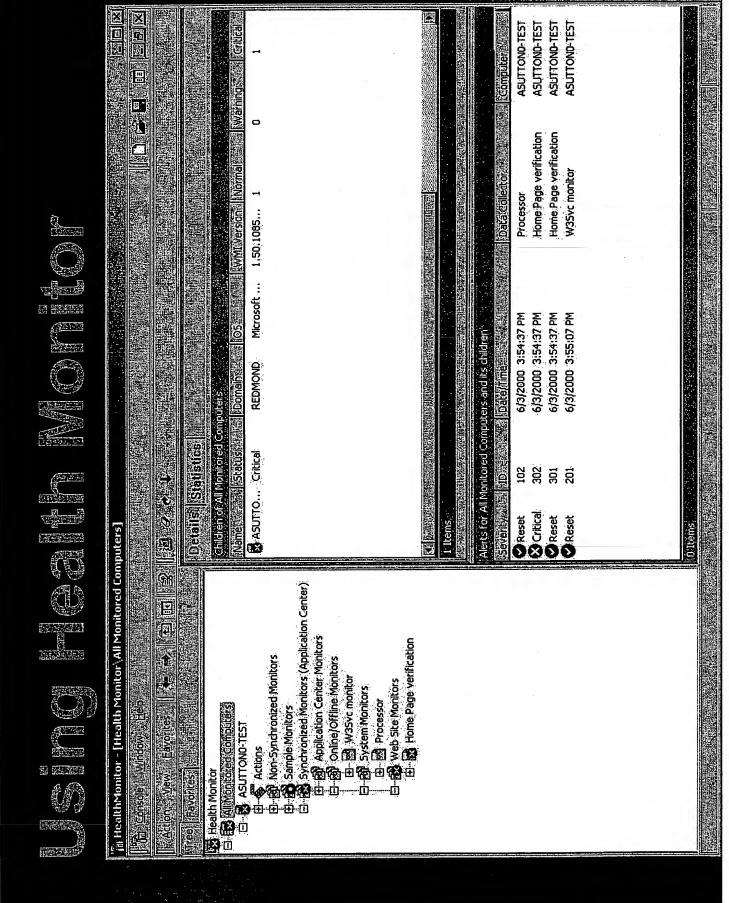








- Create monitor for CPU overload
- Associate action
- Generate CPU load
- Health Monitor console
- E-mail to administrator





Performance Monitor Properties

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Object	Processor	Blowsey
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	1 DPCBypassesPerSec	
	J DPCRate	
] DPCsQueuedPerSec	
] InterruptsPerSec	
	Iname	
L	PercentDPCTime	
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WMI instance, event and data queries

TCP/IP port

Ping



Collection Times

Interval Average

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Single property
Current value,
average, change
Single or multiple
occurrences
State change
State change

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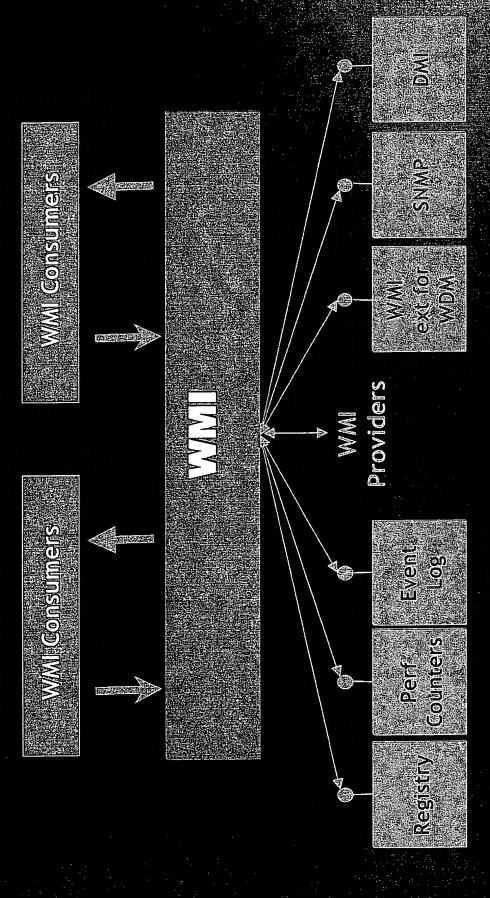
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Performance Monitor Properties

Windows log Command line

Script

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Remnder 60 El Second(s)			
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All CIM objects are queryable

 ${\tt IWbemServices::ExecQuery}$

("select * from Win32LogicalDisk

where Win32LogicalDisk.FreeSpace

SQL subset w/ new terms

Extensions for Discovery/Traversal of Schema relationships

IMbemServices::ExecQuery

("Associators of {Win32 Service = 'DHCP'})

Event filtering (thresholds, aggregation, inheritance)

XXX -- for specifying the tolerance for event delay

-- registration applies to all events from class (incl. derived classes)

XXX (within group by clause) -- specifies aggregation interval

select * from InstanceModificationEvent within where TargetInstance isa Win32 LogicalDisk

group by DriveLetter

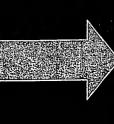
Tip: use whemtest or CIM Studio within 10 having count > 25



Data Collector
Service = W3SVC



Started III 4



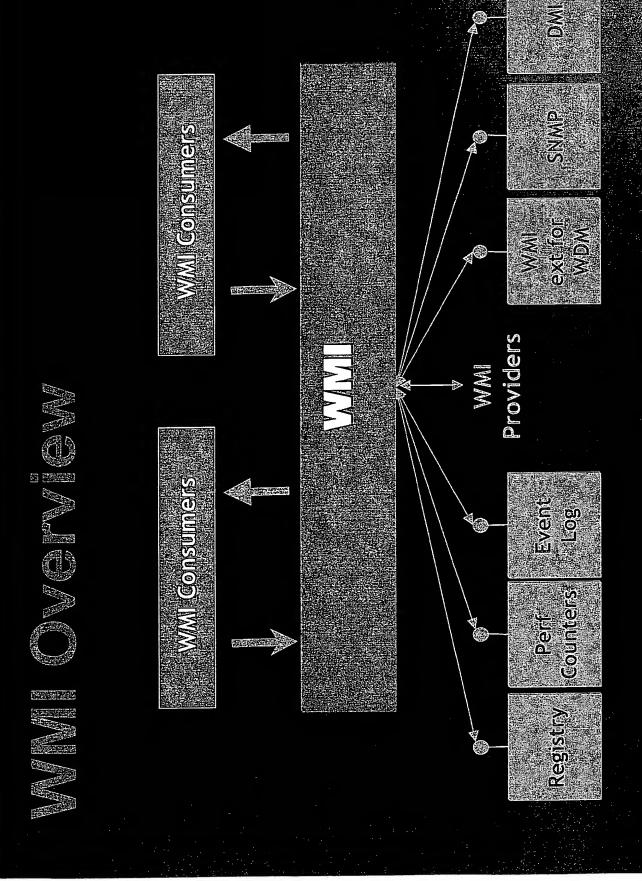
Select * from Win32_Service where Name= "W3SVC"

instance of Win32_Service

Name = "W3SVC"; Started = TRUE; State = "Running";

Action

... E-mail Admin. Run online, exe



Thresholds Data coll NOD. Part Even Los



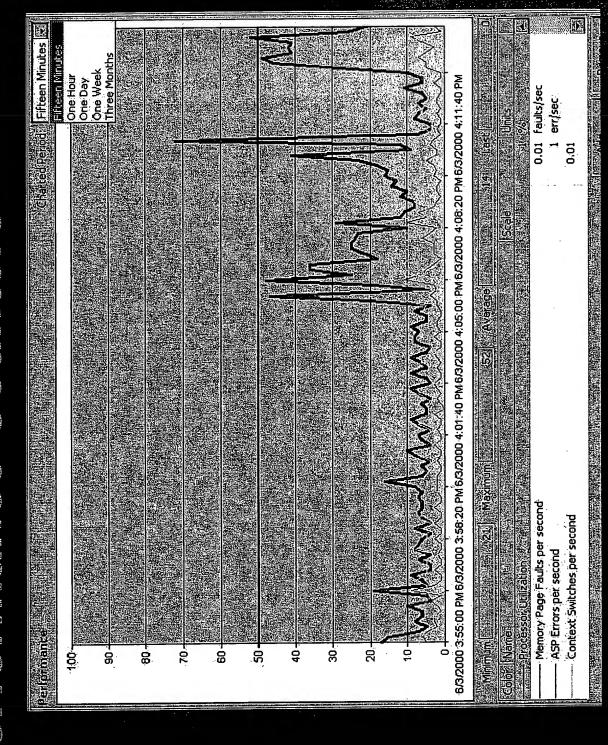






- Monitor for CPU spikes
- **Generate CPU load**
- **Application Center Perf Viewer**
- Application Center Event Viewer
- Application Center Monitor Viewer

SISIUNON SOUEUIOLISL



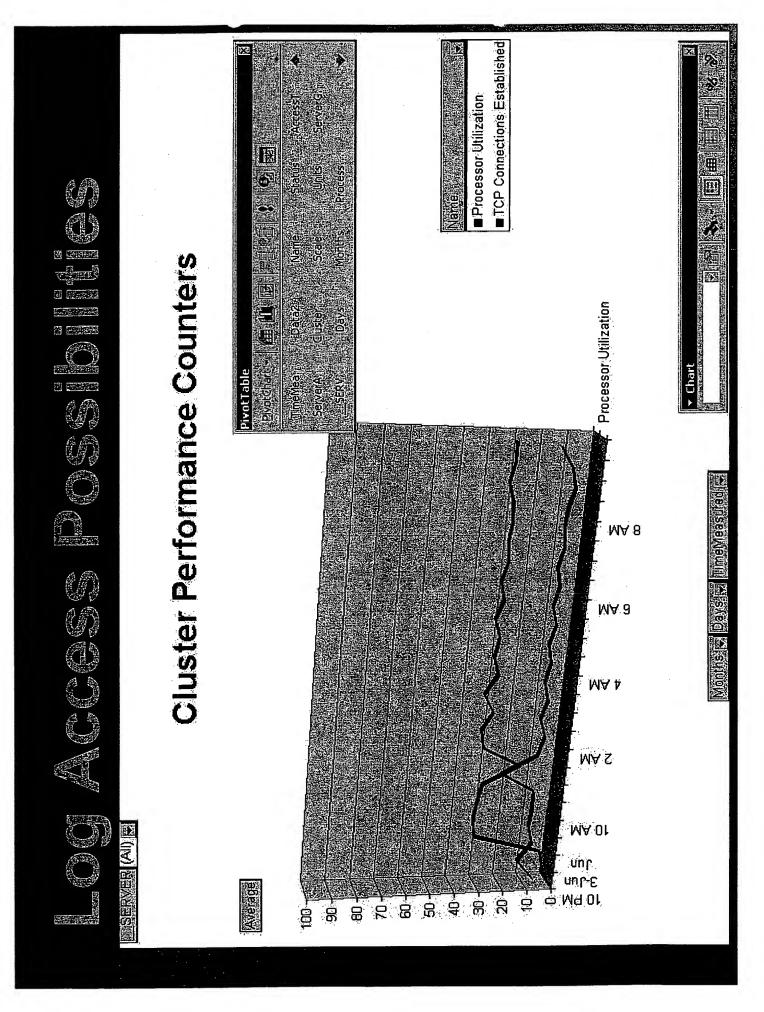


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6/3/2000	4:29:30 PM ASUTTONO-TES Perfile	2002	Windows - Application
6/3/2000	4:29:27 PM ASUTTOND-TES DCOM	10010	Windows - System
6/3/2000	4:29:22 PM ASUTTONO-TES Home Page verificati 302	verificati 302	Health Monitor - Page Returned an error
6/3/2000	4:29:17 PM ASUTTONO-TES Service Con	Service Control Man. 7023	Windows - System
	s ská kadydyk z súmnonú masiolostak 7, 192	4686	4 4 pp Ration Center Indicates that the Cluster
6 /3/2000	3:54:37 PM: ASUTTONO-TES Home Page verificati 302	verificati 302	Health Monitor - Page Returned an error
6/3/2000	3:54:36 PM ASUTTONO-TES IISInfoctrs	1003	Windows - Application
€ 6/3/2000	3:54:36 PM ASUTTOND-TES W3Svc manitor	,	Health Monitor - W3Svc Stopped/Started
3 6/3/2000 3	3:54:36 PM ASUTTONO-TES Monitoring	8022	Application Center -
€ 6/3/2000	3:54:36 PM ASUTTONO-TES Monitoring	8022	Application Center -
6/3/2000	3:54:36 PM ASUTTONO-TES Monitoring	8022	Application Center -
0002/6/9.	3:54:35 PM ASUTTOND-TES Manitoring	8022	Application Center -
0002/2/9	3:54:35 PM ASUTTOND-TES IISINFOCTIS	1003	Windows - Application



Application Senter Land Astronomy Astronomy Report Control Con

MSDE Server 1 MSDE Server 2



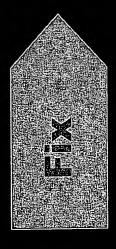


- Application Center WMI Provider
- **Extract Application Center logs**
- Query and reporting tools
- 3rd party monitoring tools
- WMI event consumer









- Create HTTP Monitor
- Web Service Monitor
- Associate Action
- Stop web service on member
- Monitors fail and state goes critical
- Action takes server offline
- E-mail admin and alert in event log

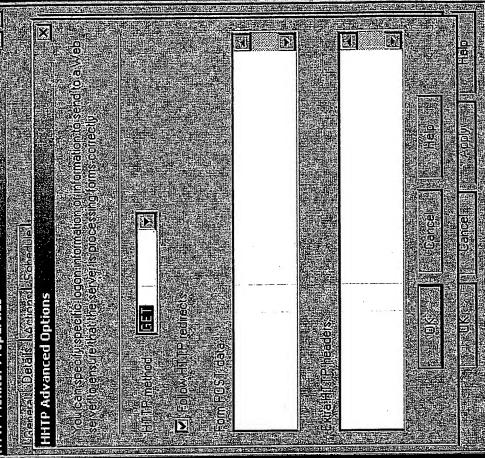


- **Monitors can control load balancing**
- If monitor fails, server goes offline
- **Default Application Center rule**
- Scriptable to extend behavior
- Beware taking all servers offline
- □ Redirect page if database error
- Or custom scripts

URL	
Timeout	HHTP Advanced Options (m) Outcam specify specific logominiormation of information
Authentication	is server to ensure the tractine serve is processing forms to the server is processing forms to the server is the

Custom Headers HTTP Method Post Data

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Response Properties

- Status code, response time, last modified
- Text response, binary response, headers
- □ Content length, received bytes

Actions

- □ Take offline
- □ Redirect to a different page
- Check other monitors
- Run a script

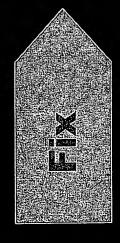


- Database health
- Performance Counters and Events
- SQL DMO Provider
- **Connectivity to the server**
- TCP/IP port connect
- Successful query
- □ ASP page









Demo ASP database monitor



Execution metrics

- Total committed transactions and per sec
- Total aborted transactions and per sec
- Total object creations and per sec
- Total object activations and per sec
- Shutdowns: total, timeout, admin, failure
- Object pool timeouts

Win32 Process statistics (dllhostexe)

□ Handles, working set, page faults, processor time...

Perf Counters Events Queries TCP Port λi∂§ SETIONS OF EOD SSEBBBB III Eventl Service POIAIOS

Health Monitor Integration

- Monitoring samples
- Load balancing control
- Replication of monitors and time
- □ Operators view
- Cluster-wide event log
- Cluster-wide performance counters









Instrumentation

- ☐ HTTP, ping and port connect monitors
- PerfMon and Event Log
- WMI Provider

Monitor application health

- What does availability mean to you?
- Baseline performance
- Watch out for false positives



Install Application Center Beta 1

Monitor and instrument your applications

Develop an operations plan

Understand WMI

Other PDC sessions recommended

- Load-Balancing . MET Platform Applications with Application Center 2000
- (2-315, Room 311, 9/12/00, 2:45 p.m. Ori Amiga)
- Using Will to Build Management into . NET Platform Applications
- (3-344, Room 304, 9/12/00, 2:45 p.m. Corina Feuerstein; Fravis Muhlestein; Stephen Todd)
- Scaling out the Data Tier with Shared Nothing Clustering (2-328, Room 109, 9/13/00, 5:30 p.m., Pedro Celis) Technology in SQL Server 2000 and Beyond

References

- http://www.microsoft.com/applicationeenter
- WMI Reference: Platform SDK, Management Services

Where do wou want to go today?

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